

Final

Sign Installation Report

**Choccolocco Corridor Ranges
Parcels 94Q, 95Q, 96Q, and 97Q**

Fort McClellan, Calhoun County, Alabama

Prepared for:

**U.S. Army Corps of Engineers, Mobile District
109 St. Joseph Street
Mobile, Alabama**

Prepared by:

**Shaw Environmental, Inc.
312 Directors Drive
Knoxville, Tennessee 37923**

**Task Order CK10
Contract No. DACA21-96-D-0018
Project No. 796887**

August 2004

Sign Installation Report Choccolocco Corridor Ranges Parcels 94Q, 95Q, 96Q, and 97Q Fort McClellan, Calhoun County, Alabama

As requested by the U.S. Army Corps of Engineers (USACE), Mobile District, the Army installed signage at the Choccolocco Corridor Ranges located at Fort McClellan (FTMC), Alabama. The USACE contracted Shaw Environmental, Inc. (Shaw) (formerly IT Corporation [IT]) to perform this work, under Contract Number DACA21-96-D-0018, Task Order CK10. At the direction of the FTMC Transition Force, 125 metal signs were installed along the perimeter of the Choccolocco Corridor Ranges. These signs warn potential trespassers: “Keep Out – Restricted Area.” The area is restricted because of the presence of lead in surface soil from historical range activities.

Site Description and History

The Choccolocco Corridor Ranges include the following range impact areas and their associated parcels:

- Former Range 40, Parcel 94Q; and Range, Choccolocco Corridor, Parcel 146Q
- Former Range 41, Parcel 95Q; and Impact Area, Parcel 131Q-X
- Former Range 42, Parcel 96Q; Range, Choccolocco Corridor, Parcel 145Q-X; and Impact Area, Choccolocco Corridor, Parcel 148Q-X
- Former Range 43, Parcel 97Q; Range, Choccolocco Corridor, Parcel 144Q-X; and Impact Area, Choccolocco Corridor, Parcel 147Q-X.

The Choccolocco Corridor Ranges are located east of the Choccolocco Mountains in the northwestern portion of the Choccolocco Corridor, east of the FTMC Main Post (Figure 1). The Choccolocco Corridor, which is currently managed by the Alabama Forestry Commission, was leased by the U.S. government from the State of Alabama from 1941 until 1998.

The information presented herein was compiled from the *Final Environmental Baseline Survey, Fort McClellan, Alabama*, (EBS) (Environmental Science and Engineering, Inc. [ESE], 1998) and the *Archives Search Report, Fort McClellan, Anniston, Alabama* (ASR) (USACE, 2001).

Former Range 40, Parcel 94Q; and Range, Parcel 146Q. Former Range 40, Parcel 94Q, and Range, Choccolocco Corridor, Parcel 146Q, overlap and include approximately 125 acres. Former Range 40, Parcel 94Q, a former small-arms range, is described in the ASR (USACE, 2001) as 30 acres in size (EBS map shows a parcel of 25 acres). Interviews with former FTMC personnel indicated that Former Range 40, Parcel 94Q, was used for small-arms training during World War II, the Korean War, and the Vietnam War.

Range, Choccolocco Corridor, Parcel 146Q, identified in the EBS as approximately 102 acres in size, is a presumed small-arms range. This parcel overlaps with Parcel 94Q. A portion of the southeastern corner of Parcel 146Q extends beyond the FTMC Choccolocco Corridor boundary to the south. The Environmental Photographic Interpretation Center (EPIC) reports that this range appears to be active in aerial photographs dated 1949, 1954, and 1972 (ESE, 1998).

Former Range 41, Parcel 95Q; and Impact Area, Parcel 131Q-X. The area of Parcels 95Q and 131Q-X is approximately 12 acres. Former Range 41, Parcel 95Q, is 8.5 acres in size. There are conflicting reports of the dates of use for Parcel 95Q, but the area was most likely active during the 1960s and 1970s. The history of use for Former Range 41 is unclear. The range appeared on 1966 and 1971 historical maps, which would coincide with reports from long-time FTMC personnel who indicate that this area was a small-arms range during the Vietnam War era (ESE, 1998). The ASR indicates that Former Range 41 was built during the Vietnam War, was listed as a “Battle Drill & Assault Range,” probably did not include live fire, and was abandoned by 1974 (USACE, 2001). Expended M-16 rifle blanks, smoke grenades, and 40 millimeter (mm) target practice (TP) grenade cases were found on this range, as indicated in the ASR. Parcel 131Q-X is described as a former impact area within the Range 40 area. Parcel 131Q-X is 4.4 acres in size (ESE, 1998).

Former Range 42, Parcel 96Q; Range, Parcel 145Q-X; and Impact Area, Parcel 148Q-X. The ASR states that Former Range 42, Parcel 96Q, was built during the Vietnam War era and was known as the “Squad Defense Range” (USACE, 2001). However, some FTMC personnel remember the area being used during World War II and the Korean War. According to the ASR, the range was abandoned by 1974. Former Range 42 is 23.8 acres and was probably used during the 1960s and 1970s.

Range, Choccolocco Corridor, Parcel 145Q-X, is approximately 44 acres in size. The southern boundary of Parcel 145Q-X overlaps Former Range 41, Parcel 95Q. Parcel 145Q-X was identified by EPIC and appears to be active in EPIC aerial photo composites dated 1949, 1954,

and 1972. The EBS describes Parcel 148Q-X as an impact area that occupies 5.8 acres within Parcels 96Q and 145Q-X.

Former Range 43, Parcel 97Q; Range, Parcel 144Q-X; and Impact Area, Parcel 147Q-X. Former Range 43, Parcel 97Q, is identified as a former small-arms range. The EBS indicates that Range 43 is approximately 4 acres in size (in the ASR, Range 43 is reported as approximately 7 acres). Approximately two-thirds of Parcel 97Q is located within the boundaries of Range, Choccolocco Corridor, Parcel 144Q-X. The Parcel 97Q range was previously designated as Range 43 and Range 3, but the dimensions of these previous ranges are not documented in the EBS. Interviews with long-time FTMC personnel indicated that the Parcel 97Q range was used for small-arms training during World War II, the Korean War, and the Vietnam War. Evidence of smoke training was also observed in the vicinity of this range (ESE, 1998).

Range, Choccolocco Corridor, Parcel 144Q-X is approximately 19 acres in size. Parcel 144Q-X encompasses about two thirds of Parcel 97Q and most of Impact Area, Choccolocco Corridor, Parcel 147Q-X. This range appears to be active in EPIC aerial photographs dated 1949, 1954, and 1972 (ESE, 1998).

Impact Area, Parcel 147Q-X, is approximately 3 acres in size. It is not known which range is associated with this impact area. This parcel is located within the boundaries of Parcel 144Q-X.

Previous Investigations. Based on the results of site investigations (SI) conducted by Shaw at the Choccolocco Corridor Ranges, past training operations at these ranges have adversely impacted the environment. Specifically, soils at these sites are contaminated with certain metals (e.g., lead) at levels that may pose an unacceptable risk to human health and the environment (Shaw, 2004a; 2004b; 2004c; and 2004d).

Shaw initiated remedial investigation (RI) activities at these ranges to determine the nature and extent of the metals contamination in soil. As part of the RI, Shaw conducted x-ray fluorescence (XRF) screening and sampling of surface soil at over 700 locations to better define the extent of lead contamination. In addition, fixed-base sampling was conducted. Figure 2 displays the estimated lead concentrations in surface and depositional soils.

Sign Installation Activities. The sign locations were marked using wooden stakes and surveyed using conventional civil survey techniques to obtain the horizontal coordinates.

Horizontal coordinates were referenced to the U.S. State Plane Coordinate System, Alabama East Zone, North American Datum 1983.

Signs were installed at the surveyed locations shown on Figure 2 and described in Table 1. The sign posts are 6 feet in length and made of high tensile strength galvanized 12-gauge steel. The “U-channel” posts were driven to a depth of 24 inches below ground surface. The signs were installed using a hand-held post driver and were oriented such that they face away from the ranges.

The signs are made of 0.040 gauge aluminum on a white reflective background. The dimensions of each sign are 10-inches-wide and 14-inches-long. The signs were custom screened printed with black lettering: “KEEP OUT RESTRICTED AREA.” The aluminum signs were attached to the steel posts using one-way tamper resistant hardware (2-inch-long x 5/16-inch diameter bolts and fluted nuts). The hardware was fastened using a non-standard special tool that further prevents possible tampering.

Photographs of the sign installation at the Choccolocco Corridor Ranges are included in Appendix A.

References

Environmental Science and Engineering, Inc. (ESE), 1998, *Final Environmental Baseline Survey, Fort McClellan, Alabama*, prepared for U.S. Army Environmental Center, Aberdeen Proving Ground, Maryland, January.

Shaw Environmental, Inc. (Shaw), 2004a, *Final Site Investigation Report for Former Range 40, Parcel 94Q, and Range, Choccolocco Corridor, Parcel 146Q, Fort McClellan, Calhoun County, Alabama*, February.

Shaw Environmental, Inc. (Shaw), 2004b, *Final Site Investigation Report for Former Range 41, Parcel 95Q and Impact Area, Choccolocco Corridor, Parcel 131Q-X, Fort McClellan, Calhoun County, Alabama*, January.

Shaw Environmental, Inc. (Shaw), 2004c, *Final Site Investigation Report for Former Range 42, Parcel 96Q; Range, Choccolocco Corridor, Parcel 145Q-X, and Impact Area, Choccolocco Corridor, Parcel 148Q-X, Fort McClellan, Calhoun County, Alabama*, March.

Shaw Environmental, Inc. (Shaw), 2004d, *Final Site Investigation Report for Former Range 43, Parcel 97Q; Range, Choccolocco Corridor, Parcel 144Q-X, and Impact Area, Choccolocco Corridor, Parcel 147Q-X, Fort McClellan, Calhoun County, Alabama*, April.

U.S. Army Corps of Engineers (USACE), 2001, *Archives Search Report, Maps, Fort McClellan, Anniston, Alabama*, Revision 1, September.

Table 1

**Sign Locations
Choccolocco Corridor Ranges, Parcels 94Q, 95Q, 96Q, and 97Q
Fort McClellan, Calhoun County, Alabama**

(Page 1 of 3)

Sign Location	Northing	Easting
HR-CC-SIGN001	1177203.12	693882.56
HR-CC-SIGN002	1177178.81	694068.65
HR-CC-SIGN003	1177121.65	694266.12
HR-CC-SIGN004	1176990.02	694342.91
HR-CC-SIGN005	1176914.32	694203.99
HR-CC-SIGN006	1176778.30	694381.26
HR-CC-SIGN007	1176795.44	694234.68
HR-CC-SIGN008	1176753.08	694224.44
HR-CC-SIGN009	1176606.89	694181.37
HR-CC-SIGN010	1176555.63	694435.06
HR-CC-SIGN011	1176410.56	694326.27
HR-CC-SIGN012	1176463.26	694147.02
HR-CC-SIGN013	1176425.04	694107.10
HR-CC-SIGN014	1176302.50	694075.40
HR-CC-SIGN015	1176301.18	694099.55
HR-CC-SIGN016	1176232.66	694181.32
HR-CC-SIGN017	1176100.89	694048.27
HR-CC-SIGN018	1176091.67	694011.49
HR-CC-SIGN019	1176004.90	693840.73
HR-CC-SIGN020	1175936.39	693919.99
HR-CC-SIGN021	1175914.88	693948.27
HR-CC-SIGN022	1175896.75	694136.94
HR-CC-SIGN023	1175835.67	694265.98
HR-CC-SIGN024	1175808.29	694435.10
HR-CC-SIGN025	1175775.04	694587.60
HR-CC-SIGN026	1175759.40	694788.05
HR-CC-SIGN027	1175766.24	694918.01
HR-CC-SIGN028	1175642.05	695000.08
HR-CC-SIGN029	1175497.58	694816.35
HR-CC-SIGN030	1175462.69	694703.98
HR-CC-SIGN031	1175432.79	694553.38
HR-CC-SIGN032	1175425.03	694378.40
HR-CC-SIGN033	1175431.88	694221.99
HR-CC-SIGN034	1175436.69	694026.43
HR-CC-SIGN035	1175502.47	693785.39
HR-CC-SIGN036	1175615.65	693827.81
HR-CC-SIGN037	1175772.11	693876.59
HR-CC-SIGN038	1175807.31	693865.18
HR-CC-SIGN039	1175667.48	693823.32
HR-CC-SIGN040	1175512.78	693766.79
HR-CC-SIGN041	1175357.45	693729.71
HR-CC-SIGN042	1175349.53	693750.24
HR-CC-SIGN043	1175256.82	693902.64
HR-CC-SIGN044	1175218.24	693901.84

Table 1

Sign Locations
Choccolocco Corridor Ranges, Parcels 94Q, 95Q, 96Q, and 97Q
Fort McClellan, Calhoun County, Alabama

(Page 2 of 3)

Sign Location	Northing	Easting
HR-CC-SIGN045	1175133.49	694045.00
HR-CC-SIGN046	1175064.29	694214.85
HR-CC-SIGN047	1174991.36	694345.32
HR-CC-SIGN048	1174904.53	694509.48
HR-CC-SIGN049	1174849.25	694655.07
HR-CC-SIGN050	1174809.74	694793.99
HR-CC-SIGN051	1174678.09	694810.36
HR-CC-SIGN052	1174530.16	694735.28
HR-CC-SIGN053	1174583.60	694562.71
HR-CC-SIGN054	1174640.89	694449.59
HR-CC-SIGN055	1174679.58	694285.20
HR-CC-SIGN056	1174735.98	694121.75
HR-CC-SIGN057	1174829.14	693946.00
HR-CC-SIGN058	1175008.48	693906.63
HR-CC-SIGN059	1175179.94	693707.41
HR-CC-SIGN060	1175191.84	693681.61
HR-CC-SIGN061	1174795.45	693571.38
HR-CC-SIGN062	1174746.67	693591.30
HR-CC-SIGN063	1174648.69	693529.26
HR-CC-SIGN064	1174646.93	693566.69
HR-CC-SIGN065	1174598.41	693663.62
HR-CC-SIGN066	1174511.26	693752.90
HR-CC-SIGN067	1174428.02	693928.81
HR-CC-SIGN068	1174354.59	694115.70
HR-CC-SIGN069	1174149.80	694130.40
HR-CC-SIGN070	1174216.28	693966.53
HR-CC-SIGN071	1174270.01	693818.14
HR-CC-SIGN072	1174382.02	693513.15
HR-CC-SIGN073	1174519.53	693514.46
HR-CC-SIGN074	1174519.53	693491.86
HR-CC-SIGN075	1174251.42	693445.39
HR-CC-SIGN076	1174117.53	693463.23
HR-CC-SIGN077	1174096.10	693492.65
HR-CC-SIGN078	1173992.83	693653.30
HR-CC-SIGN079	1173855.99	693738.02
HR-CC-SIGN080	1173778.34	693973.64
HR-CC-SIGN081	1173717.64	694101.24
HR-CC-SIGN082	1173537.74	693995.95
HR-CC-SIGN083	1173782.79	693588.11
HR-CC-SIGN084	1173901.76	693445.04
HR-CC-SIGN085	1173914.01	693423.08
HR-CC-SIGN086	1173408.51	693290.85
HR-CC-SIGN087	1173205.28	693280.36
HR-CC-SIGN088	1173102.64	693631.00

Table 1

Sign Locations
Choccolocco Corridor Ranges, Parcels 94Q, 95Q, 96Q, and 97Q
Fort McClellan, Calhoun County, Alabama

(Page 3 of 3)

Sign Location	Northing	Easting
HR-CC-SIGN089	1173036.58	693433.87
HR-CC-SIGN090	1172872.31	693903.93
HR-CC-SIGN091	1172820.14	693576.14
HR-CC-SIGN092	1172988.83	693271.33
HR-CC-SIGN093	1172876.02	693018.42
HR-CC-SIGN094	1173036.02	692816.81
HR-CC-SIGN095	1173206.29	692767.50
HR-CC-SIGN096	1173355.67	692913.79
HR-CC-SIGN097	1173476.60	693022.49
HR-CC-SIGN098	1173953.29	693232.12
HR-CC-SIGN099	1174116.64	693263.35
HR-CC-SIGN100	1174238.91	693256.16
HR-CC-SIGN101	1174359.42	693361.51
HR-CC-SIGN102	1174571.43	693296.46
HR-CC-SIGN103	1174763.58	693254.63
HR-CC-SIGN104	1174842.80	693433.01
HR-CC-SIGN105	1174915.53	693122.60
HR-CC-SIGN106	1174874.94	693013.53
HR-CC-SIGN107	1175016.97	693017.94
HR-CC-SIGN108	1175444.62	693606.30
HR-CC-SIGN109	1175925.32	693720.04
HR-CC-SIGN110	1176102.83	693656.23
HR-CC-SIGN111	1176297.23	693733.50
HR-CC-SIGN112	1176464.58	693750.62
HR-CC-SIGN113	1176624.02	693630.75
HR-CC-SIGN114	1176754.47	693730.86
HR-CC-SIGN115	1176853.29	693850.68
HR-CC-SIGN116	1177040.41	693837.56
HR-CC-SIGN117	1175015.91	694362.06
HR-CC-SIGN118	1175093.37	694124.64
HR-CC-SIGN119	1174988.75	694081.70
HR-CC-SIGN120	1174877.46	694039.48
HR-CC-SIGN121	1174763.43	694040.05
HR-CC-SIGN122	1174526.22	694635.81
HR-CC-SIGN123	1175629.99	693905.93
HR-CC-SIGN124	1175677.50	693853.61
HR-CC-SIGN125	1173604.25	693576.17

Actual locations were subject to site suitability and may have been placed a few feet away from the proposed location.

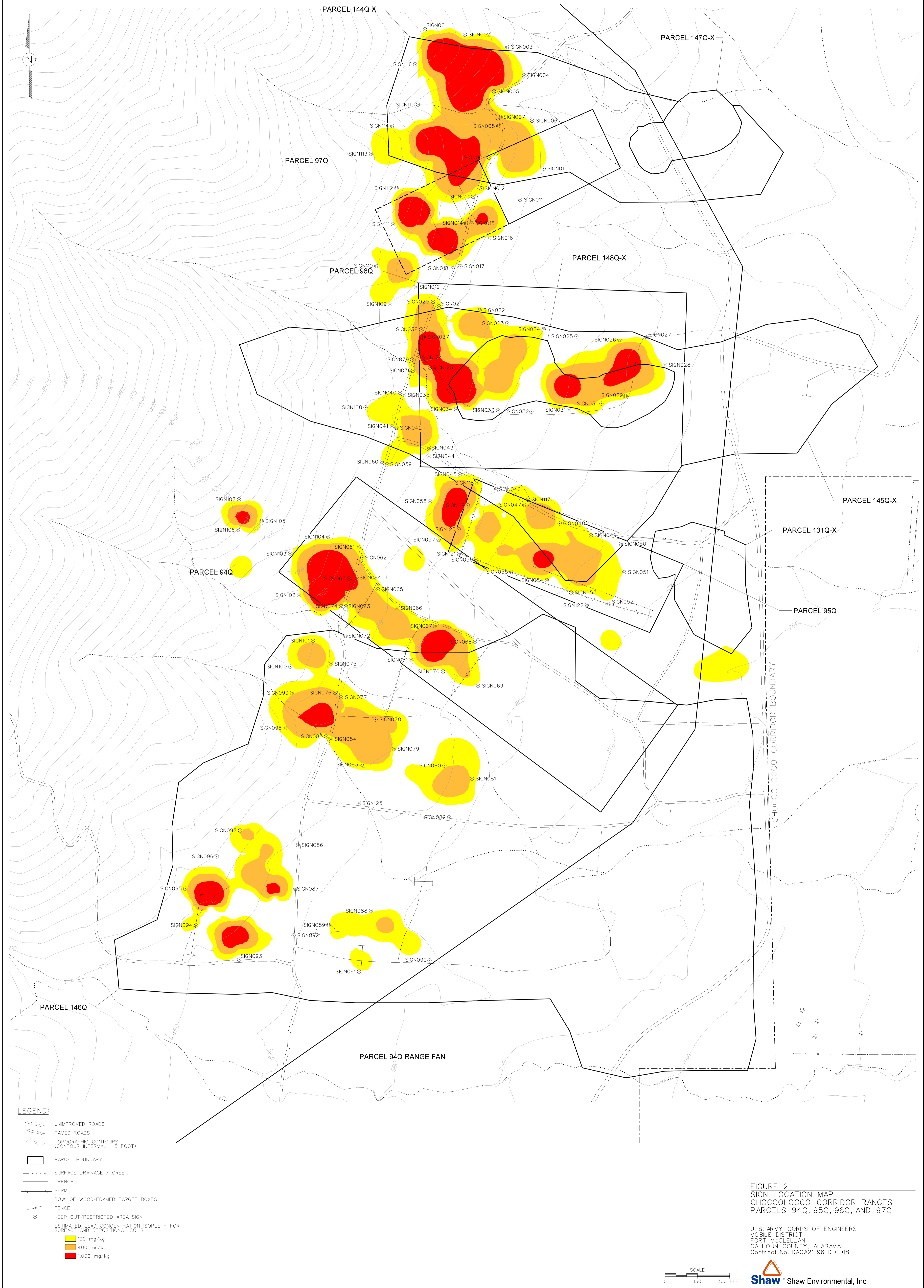


LEGEND

- UNIMPROVED ROAD
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK

FIGURE 1
SITE LOCATION MAP
CHOCOLOCOCO CORRIDOR RANGES
PARCELS 94Q, 95Q, 96Q, AND 97Q

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018



APPENDIX A

PHOTOGRAPHS

**Sign Installation Report
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